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1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/721,904B

DATE: 03/20/2003 P.6

TIME: 16:03:44

Input Set : A:\seqlist.asc.txt

Output Set: N:\CRF4\03202003\I721904B.raw

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3 <110> APPLICANT: JULIUS, Michael H.
4 FILIPP, Dominik
6 <120> TITLE OF INVENTION: THE INDUCTION OF ANTIBIOTIC PROTEINS AND PEPTIDES BY
7 LAIT/SCD14-PROTEIN
9 <130> FILE REFERENCE: 47841/00063
11 <140> CURRENT APPLICATION NUMBER: US 09/721,904B
12 <141> CURRENT FILING DATE: 2000-11-27
14 <150> PRIOR APPLICATION NUMBER: PCT/CA99/00482
15 <151> PRIOR FILING DATE: 1999-05-27
17 <150> PRIOR APPLICATION NUMBER: US 60/086,884
18 <151> PRIOR FILING DATE: 1998-05-27
20 <160> NUMBER OF SEQ ID NOS: 11
22 <170> SOFTWARE: Wordperfect 9.0
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25 <211> LENGTH: 1122
26 <212> TYPE: DNA
27 <213> ORGANISM: bovine
29 <400> SEQUENCE: 1
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32 gacacaaacag aacctgcgca gctggacgac gacgatttcc gttgtgtctg caacttcacg 120
34 gatccgaagc ctgactggct tagcgccggt cagtgtatgg ttgccctcga ggtggagatc 180
36 agtgcgcgcg gccgcagcct ggaacagttt ctcaaggagg ccgacacca cccgaagcac 240
38 tatgctgaca caatcaagcg tctgcgcggt cgcgactca agctggggcg tgcaacagtt 300
40 cctgctcagc ttctgtgtgc ggttctgcgc gcgctcggtt actctgtct caaggaaactg 360
42 acgcttgagg acctggaggt aaccgcccga acgccccga cgctctgga agccctggg 420
44 cctgcgctca ccacctcag tctgcgtaac gtatcgtgga caacaggagg tgccctggctc 480
46 ggcgaactgc agcagtgct caagcctggg ctcaagggtg tgaacattgc ccaagcacac 540
48 tgcgttgctt ttccgtgcgc agggctctcc accttcgagg cgctcaccac cctagacctg 600
50 tctgacaatc ccatctcgcg cgacacgggg ctgatggcag ctctctgtcc gaacaagttc 660
52 ccggcccttc aatatctagc gctacgcaac gcggggatgg agacgcccga cggcgtgtgc 720
54 ggcgcgctgg cggcgacgag ggtgcagccc caaagcctgg acctcagca caactcgcgt 780
56 cgcgtaacgg ccccggtgct taccgatgt gtctggccca gtgcactaag gtctctcaat 840
58 ttgtcgttgc ctgggctgga gcaagtgcct aaggggactgc ccctaagct cagcgtgctt 900
60 gatctcagct gcaacaagct aagcagggag ccgcggcgag acgagtgccc cgaggttaat 960
62 gacctgactc tggacggaaa tccctttctg gacctgggag ccttcacgca ccaaaatgac 1020
64 ccgatgatct ccgcgctggt cccaagcctgt gcgcgttctg ccttgaccat gggggtgtca 1080
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70 <211> LENGTH: 1128
71 <212> TYPE: DNA
72 <213> ORGANISM: human
74 <400> SEQUENCE: 2
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77 acgcagcaaac ctgtgtgagct ggacgatgaa gatttccgct gcgtctgcgaa ctcttccgaa 120
79 cctcagcccg actggtccga agccttccag tgtgtgtctg cagtagagggt ggagatccat 180
81 gccggcggtc tcaacctaga gccgtttcta aagcgcgtcg atcgcgacgc cgaccgcggg 240
83 cagtagtctg acacggtcaa ggctctccgc gtgcggcgcg tcacagtggg agccgcacag 300
85 gtctctgtc agctactggt aggcgcctcg cgtgtgctag cgtactccgc cctcaaggaa 360
87 ctgacgctcg aggacctaaa gataaccggc accatgcctc cgctgcctct ggaagccaca 420
89 ggaactgcac ttctcagctt gcgcctacgc aacgtgtcgt ggcgacacag gcgtttctgg 480
91 ctgcgcgagc tgcagcagtg gctcaagcca ggcctcaagg tactgagcat tgcccaagca 540
93 cactgcctcg ccttttctgt cgaacagggt cgcgccttcc cgcccttacc cagcctagac 600
95 ctgtctgaca atcctggaact gggcgaacgc ggactgatgg cggtctctgt tccccacaag 660
97 ttcccgccca tccagaatct agcgctgcgc aacacaggaa tggagacgcc cacaggcggt 720
99 tgcgcgcac tggcgcgccg aggtgtgcag cccacagcc tagaactcag ccacaactcg 780
101 ctgcgcgcca ccgtaaaccc tagcgtctcg agatgcatgt ggtccagcgc cctgaactcc 840
103 ctcaatctgt cgttcgctgg gtgtggaacag gtgcctaaag gactgccacg caagctcaga 900
105 gtgtcgtgat tcagctgcaa cagactgaac agggcgccgc agcctgacga gctgccccag 960
107 gtggataaac tgacactgga cgggaatccc ttctgtgtcc ctggaactgc cctccccac 1020
109 gagggtgcac tgaactccgg cgtggtccca gctgtgcac gctgcacct gtcggtgggg 1080
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115 <211> LENGTH: 1101
116 <212> TYPE: DNA
117 <213> ORGANISM: murine
119 <400> SEQUENCE: 3
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122 gagccctgcg agctagacga ggaagtgtgt tctctgcaat tctcagatcc gaagccagat 120
124 tggctccagcg ctttcaattg tttggggcgcg gcagatgtgg aattgtacgg cgcgggccgc 180
126 agcctggaat accttctaaa cgcgtgtggac acggaagcag atctggggca gttcactgat 240
128 attatcaagt ctctgtcctt aaagcggctt acggtgcggg ccgcgcggat tctcagtgg 300
130 attctattcg gagccctgcg tgtgtcctgg atttccggcc tccaggaact gactcttgaa 360
132 aatctcgagg taaccggcac cgcgcgcgca ccgttcttgg aagccaccgg acccgatctc 420
134 aacatcttga acctccgcaa cgtgtcgtgg gcaacaaggg atgcctggct cgagaaactg 480
136 cagcagtggc taaagcctgg actcaaggta ctgagtattg cccaagcaca ctcaactaac 540
138 tttctctcgc aacaggtccg cgtcttccct gccctctoca ccttagacct gcttagaact 600
140 cctgaattgg gcgagagagg actgatctca gccctctgtc cctcgaagt ccgcaccctc 660
142 caagttttag cgctgcgtaa cgcgggggat gagacgcca cgcgctgtgt ctctgcgtg 720
144 gcgcgacgaa ggttacagct gcaaggacta gaccttagtc acaattcact gcgggatgct 780
146 gcggcgctc cgagtttgtg ctggcccgat cagctaaact cgctcaact gtcttcaact 840
148 ggcgtgaagc aggtacctaa agggctgcca gccaaagctc gcgtgctgga tctcagttac 900
150 aacaggctgg ataggaaccc tagcccgatg gagctgcccc aagtggggaa cctgtcactt 960
152 aaaggaaatc cctttttgga ccttgaatcc caactggaga agtttaactc ttgcgtagt 1020
154 accgcgggag ctccatcatc ccaagcagtg gcctgtgacg gaactctggc tttgtccta 1080
156 ggagatcgcc tctttgttta a
159 <210> SEQ ID NO: 4
160 <211> LENGTH: 373
161 <212> TYPE: PRT
162 <213> ORGANISM: bovine
164 <400> SEQUENCE: 4
165 Met Val Cys Val Pro Tyr Leu Leu Leu Leu Leu Pro Ser Leu Leu
166 1 5 10 15

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168 Arg Val Ser Ala Asp Thr Thr Glu Pro Cys Glu Leu Asp Asp Asp Asp
169                20                25                30
171 Phe Arg Cys Val Cys Asn Phe Thr Asp Pro Lys Pro Asp Trp Ser Ser
172                35                40                45
174 Ala Val Gln Cys Met Val Ala Val Glu Val Glu Ile Ser Ala Gly Gly
175                50                55                60
177 Arg Ser Leu Glu Gln Phe Leu Lys Gly Ala Asp Thr Asn Pro Lys Gln
178 65                70                75                80
180 Tyr Ala Asp Thr Ile Lys Ala Leu Arg Val Arg Arg Leu Lys Leu Gly
181                85                90                95
183 Ala Ala Gln Val Pro Ala Gln Leu Leu Val Ala Val Leu Arg Ala Leu
184                100               105               110
186 Gly Tyr Ser Arg Leu Lys Glu Leu Thr Leu Glu Asp Leu Glu Val Thr
187                115               120               125
189 Gly Pro Thr Pro Pro Thr Pro Leu Glu Ala Ala Gly Pro Ala Leu Thr
190                130               135               140
192 Thr Leu Ser Leu Arg Asn Val Ser Trp Thr Thr Gly Gly Ala Trp Leu
193 145                150               155               160
195 Gly Glu Leu Gln Gln Trp Leu Lys Pro Gly Leu Arg Val Leu Asn Ile
196                165               170               175
198 Ala Gln Ala His Ser Leu Ala Phe Pro Cys Ala Gly Leu Ser Thr Phe
199                180               185               190
201 Glu Ala Leu Thr Thr Leu Asp Leu Ser Asp Asn Pro Ser Leu Gly Asp
202                195               200               205
204 Thr Gly Leu Met Ala Ala Leu Cys Pro Asn Lys Phe Pro Ala Leu Gln
205                210               215               220
207 Tyr Leu Ala Leu Arg Asn Ala Gly Met Glu Thr Pro Ser Gly Val Cys
208 225                230               235               240
210 Ala Ala Leu Ala Ala Ala Arg Val Gln Pro Gln Ser Leu Asp Leu Ser
211                245               250               255
213 His Asn Ser Leu Arg Val Thr Ala Pro Gly Ala Thr Arg Cys Val Trp
214                260               265               270
216 Pro Ser Ala Leu Arg Ser Leu Asn Leu Ser Phe Ala Gly Leu Glu Gln
217                275               280               285
219 Val Pro Lys Gly Leu Pro Pro Lys Leu Ser Val Leu Asp Leu Ser Cys
220                290               295               300
222 Asn Lys Leu Ser Arg Glu Pro Arg Arg Asp Glu Leu Pro Glu Val Asn
223 305                310               315               320
225 Asp Leu Thr Leu Asp Gly Asn Pro Phe Leu Asp Pro Gly Ala Leu Gln
226                325               330               335
228 His Gln Asn Asp Pro Met Ile Ser Gly Val Val Pro Ala Cys Ala Arg
229                340               345               350
231 Ser Ala Leu Thr Met Gly Val Ser Gly Ala Leu Ala Leu Leu Gln Gly
232                355               360               365
234 Ala Arg Gly Phe Ala
235                370
238 <210> SEQ ID NO: 5
239 <211> LENGTH: 375
240 <212> TYPE: PRT

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241 <213> ORGANISM: human
243 <400> SEQUENCE: 5
244 Met Glu Arg Ala Ser Cys Leu Leu Leu Leu Leu Leu Pro Leu Val His
245 1 5 10 15
247 Val Ser Ala Thr Thr Pro Glu Pro Cys Glu Leu Asp Asp Glu Asp Phe
248 20 25 30
250 Arg Cys Val Cys Asn Phe Ser Glu Pro Gln Pro Asp Trp Ser Glu Ala
251 35 40 45
253 Phe Gln Cys Val Ser Ala Val Glu Val Glu Ile His Ala Gly Gly Leu
254 50 55 60
256 Asn Leu Glu Pro Phe Leu Lys Arg Val Asp Ala Asp Ala Asp Pro Arg
257 65 70 75 80
259 Gln Tyr Ala Asp Thr Val Lys Ala Leu Arg Val Arg Arg Leu Thr Val
260 85 90 95
262 Gly Ala Ala Gln Val Pro Ala Gln Leu Leu Val Gly Ala Leu Arg Val
263 100 105 110
265 Leu Ala Tyr Ser Arg Leu Lys Glu Leu Thr Leu Glu Asp Leu Lys Ile
266 115 120 125
268 Thr Gly Thr Met Pro Pro Leu Pro Leu Glu Ala Thr Gly Leu Ala Leu
269 130 135 140
271 Ser Ser Leu Arg Leu Arg Asn Val Ser Trp Ala Thr Gly Arg Ser Trp
272 145 150 155 160
274 Leu Ala Glu Leu Gln Gln Trp Leu Lys Pro Gly Leu Lys Val Leu Ser
275 165 170 175
277 Ile Ala Gln Ala His Ser Pro Ala Phe Ser Tyr Glu Gln Val Arg Ala
278 180 185 190
280 Phe Pro Ala Leu Thr Ser Leu Asp Leu Ser Asp Asn Pro Gly Leu Gly
281 195 200 205
283 Glu Arg Gly Leu Met Ala Ala Leu Cys Pro His Lys Phe Pro Ala Ile
284 210 215 220
286 Gln Asn Leu Ala Leu Arg Asn Thr Gly Met Glu Thr Pro Thr Gly Val
287 225 230 235 240
289 Cys Ala Ala Leu Ala Ala Ala Gly Val Gln Pro His Ser Leu Asp Leu
290 245 250 255
292 Ser His Asn Ser Leu Arg Ala Thr Val Asn Pro Ser Ala Pro Arg Cys
293 260 265 270
295 Met Trp Ser Ser Ala Leu Asn Ser Leu Asn Leu Ser Phe Ala Gly Leu
296 275 280 285
298 Glu Gln Val Pro Lys Gly Leu Pro Ala Lys Leu Arg Val Leu Asp Leu
299 290 295 300
301 Ser Cys Asn Arg Leu Asn Arg Ala Pro Gln Pro Asp Glu Leu Pro Glu
302 305 310 315 320
304 Val Asp Asn Leu Thr Leu Asp Gly Asn Pro Phe Leu Val Pro Gly Thr
305 325 330 335
307 Ala Leu Pro His Glu Gly Ser Met Asn Ser Gly Val Val Pro Ala Cys
308 340 345 350
310 Ala Arg Ser Thr Leu Ser Val Gly Val Ser Gly Thr Leu Val Leu Leu
311 355 360 365
313 Gln Gly Ala Arg Gly Phe Ala

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314      370      375
317 <210> SEQ ID NO: 6
318 <211> LENGTH: 366
319 <212> TYPE: PRT
320 <213> ORGANISM: murine
322 <400> SEQUENCE: 6
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324 1      5      10      15
326 Pro Ala Pro Pro Glu Pro Cys Glu Leu Asp Glu Glu Ser Cys Ser Cys
327      20      25      30
329 Asn Phe Ser Asp Pro Lys Pro Asp Trp Ser Ser Ala Phe Asn Cys Leu
330      35      40      45
332 Gly Ala Ala Asp Val Glu Leu Tyr Gly Gly Gly Arg Ser Leu Glu Tyr
333      50      55      60
335 Leu Leu Lys Arg Val Asp Thr Glu Ala Asp Leu Gly Gln Phe Thr Asp
336 65      70      75      80
338 Ile Ile Lys Ser Leu Ser Leu Lys Arg Leu Thr Val Arg Ala Ala Arg
339      85      90      95
341 Ile Pro Ser Arg Ile Leu Phe Gly Ala Leu Arg Val Leu Gly Ile Ser
342      100      105      110
344 Gly Leu Gln Glu Leu Thr Leu Glu Asn Leu Glu Val Thr Gly Thr Ala
345      115      120      125
347 Pro Pro Pro Leu Leu Glu Ala Thr Gly Pro Asp Leu Asn Ile Leu Asn
348      130      135      140
350 Leu Arg Asn Val Ser Trp Ala Thr Arg Asp Ala Trp Leu Ala Glu Leu
351 145      150      155      160
353 Gln Gln Trp Leu Lys Pro Gly Leu Lys Val Leu Ser Ile Ala Gln Ala
354      165      170      175
356 His Ser Leu Asn Phe Ser Cys Glu Gln Val Arg Val Phe Pro Ala Leu
357      180      185      190
359 Ser Thr Leu Asp Leu Ser Asp Asn Pro Glu Leu Gly Glu Arg Gly Leu
360      195      200      205
362 Ile Ser Ala Leu Cys Pro Leu Lys Phe Pro Thr Leu Gln Val Leu Ala
363      210      215      220
365 Leu Arg Asn Ala Gly Met Glu Thr Pro Ser Gly Val Cys Ser Ala Leu
366 225      230      235      240
368 Ala Ala Ala Arg Val Gln Leu Gln Gly Leu Asp Leu Ser His Asn Ser
369      245      250      255
371 Leu Arg Asp Ala Ala Gly Ala Pro Ser Cys Asp Trp Pro Ser Gln Leu
372      260      265      270
374 Asn Ser Leu Asn Leu Ser Phe Thr Gly Leu Lys Gln Val Pro Lys Gly
375      275      280      285
377 Leu Pro Ala Lys Leu Ser Val Leu Asp Leu Ser Tyr Asn Arg Leu Asp
378      290      295      300
380 Arg Asn Pro Ser Pro Asp Glu Leu Pro Gln Val Gly Asn Leu Ser Leu
381 305      310      315      320
383 Lys Gly Asn Pro Phe Leu Asp Ser Glu Ser His Ser Glu Lys Phe Asn
384      325      330      335
386 Ser Gly Val Val Thr Ala Gly Ala Pro Ser Ser Gln Ala Val Ala Leu

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/721,904B

DATE: 03/20/2003
TIME: 16:03:45

Input Set : A:\seqlist.asc.txt
Output Set: N:\CRF4\03202003\I721904B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; Xaa Pos. 14,265,266,267,269

VERIFICATION SUMMARY

DATE: 03/20/2003

PATENT APPLICATION: US/09/721,904B

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Input Set : A:\seqlist.asc.txt

Output Set: N:\CRF4\03202003\I721904B.raw

L:120 M:112 C: (48) String data converted to lower case,

M:112 Repeated in SeqNo=3

L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0

M:341 Repeated in SeqNo=7